

Knowledge Engineering

Integration Laboratory



NTIL

The ABCS suite of equipment includes:

- Maneuver Control System (MCS)
- Maneuver Control System Light (MCS-L)
- All Source Analysis System (ASAS)
- Advanced Field Artillery Tactical Data System (AFATDS)
- Global Command and Control System – Army (GCCS-A)
- Air Missile Defense Work Station (AMDWS)
- Integrated Meteorological System (IMETS) – TVSAT live satellite feed provides 24/7 global weather forecasting data, and can than be accessible to all ABCS systems, and non-ABCS systems through a web browser interface.
- Digital Topographic Support System (DTSS)
- Combat Service Support Control System (CSSCS)
- Force XXI Battle Command Brigade and Below (FBCB2)
- Tactical Airspace Integration system (TAIS)
- Control Personal Computer (C2PC)

The test tool suite includes:

- C3 Driver – Simulation Training Operational Research (STORM) functionality
- Role-Player WorkStation (RPWS) – Role Simulation
- MultiFunctional Data Collector (MFDC)
- Digital Army USMTF VMF Simulator (DAUVS)
- Common Message Processor (CMP)
- Digital BattleStaff Sustainment Trainer (DBST) – SimC4I Interchange Module for Plans, Logistics, and Exerciser (SIMPLE) functionality, Joint Conflict and Tactical Simulation (JCAT) - Distributed Interactive Simulation (DIS) and High Level Architecture (HLA) compatible, Scalable Entity Level Simulation (SELS)
- SA Monitor – a viewing tool provides a graphical display of SA data, real-time and after test analysis

New Technology Intergration Laboratory

The KEIL supports the transformation of the US Army through the development and delivery of quality System Architecture products and services that are Department of Defense Architecture Repository System (DARS) conformant. The newly acquired NTIL will provide a hardware lab for the integration of new software/hardware to track, assess, investigate, implement, and validate the latest networking technologies selected for fielding into future network architecture (SBCT-x, FCS, etc), and to assist the transition of Common Operating Environment (COE) to a Net Centric Enterprise Services (NCES) based tactical Army System Architecture (ASA). The NTIL also allows users to conduct initial mission thread, architecture engineering and system interoperability validation for all Army System Architecture (ASA). The New Technology Integration Lab (NTIL) possess suite of Army Battle Command System (ABCS) equipment and suite of test tools which provide the Science Technology community venues, including infrastructure, to explore Command, Communications, Intelligence, Surveillance, and Reconnaissance (C4ISR) technologies in laboratory (Modeling and Simulation) as well as live environments.

The NTIL has a suite of the latest ABCS software version that can be loaded and configured into separate TOCs as needed to support different network configuration. The NTIL provides a lab environment where the impact of the proposed devices to the existing architecture can be investigated prior to the certification at Fort Hood and their integration into Tactical Internet (TI) architecture. The ABCS equipment suite can be used to conduct testing during the SA developmental cycle and to validate architecture once captured in the Netviz (SBCT-1, SBCT-2, SBCT-3, etc.). The ABCS and the test tool equipment suites allow the users to conduct initial mission thread and architecture engineering validation, and the ability to address and resolve any system interoperability issues. In order to fully utilize the existing equipment that are currently residing in the NTIL lab, the existing fiber optic communication infrastructure provides seamless connectivity (secure or non-secure) throughout the local Fort Monmouth community and any remote locations.

The on going technology assessment with the NOC-V network at the WIN-T lab to evaluate/validate firewall policies/rule sets with the C2 system required connectivity with the ABCS equipment at the NTIL lab. In addition to the ABCS equipment suite, the test tool can be used to capture data, monitor and analyze live tactical traffic, traffic generation, stimulate scenario scripts, validate mission thread, and Time Event Order List (TEOL) capability. The ABCS and test tool suites will continue product evolution to support future experiment of ABCS 7.x and beyond, as well as support to C3 development for the FCS and the Objective Force.



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